

Stormwater, Previous Permit, Screening Criteria

FRESHWATER WATER QUALITY CRITERIA / WASTELOAD ALLOCATION ANALYSIS

Facility Name: Taylor Ramsey Wood Preservers WWTP

Permit No.: VA0081213

Receiving Stream: UT Tommeheton Creek

Version: OWP Guidance Memo 00-2011 (8/24/00)

Stream Information		Stream Flows		Mixing Information		Effluent Information	
Mean Hardness (as CaCO ₃) =	85.57 mg/L	1Q10 (Annual) =	0 MGD	Annual - 1Q10 Mix =	100 %	Mean Hardness (as CaCO ₃) =	85.57 mg/L
90% Temperature (Annual) =	21.1 deg C	7Q10 (Annual) =	0 MGD	-7Q10 Mix =	100 %	90% Temp (Annual) =	21.1 deg C
90% Temperature (Wet season) =	21.1 deg C	30Q10 (Annual) =	0 MGD	-30Q10 Mix =	100 %	90% Temp (Wet season) =	21.1 deg C
90% Maximum pH =	7.28 SU	1Q10 (Wet season) =	0 MGD	Wet Season - 1Q10 Mix =	100 %	90% Maximum pH =	7.28 SU
10% Maximum pH =	6.1 SU	30Q10 (Wet season) =	0 MGD	-30Q10 Mix =	100 %	10% Maximum pH =	6.1 SU
Tier Designation (1 or 2) =	1	30Q5 =	0 MGD	Discharge Flow =			0.0025 MGD
Public Water Supply (PWS) Y/N? =	n	Harmonic Mean =	0 MGD				
Trout Present Y/N? =	n	Annual Average =	0 MGD				
Early Life Stages Present Y/N? =	y						

Parameter (ug/l unless noted)	Background Conc.	Water Quality Criteria			Wasteload Allocations			Antidegradation Baseline			Antidegradation Allocations			Most Limiting Allocations		
		Acute	Chronic	HH (PWS)	Acute	Chronic	HH (PWS)	Acute	Chronic	HH (PWS)	Acute	Chronic	HH (PWS)	Acute	Chronic	HH (PWS)
Acenaphthene	0	-	-	na	2.7E+03	-	na	2.7E+03	-	na	-	-	na	-	-	na
Acrolein	0	-	-	na	7.8E+02	-	na	7.8E+02	-	na	-	-	na	-	-	na
Acrylonitrile ^c	0	-	-	na	6.6E+00	-	na	6.6E+00	-	na	-	-	na	-	-	na
Aldrin ^c	0	3.0E+00	-	na	1.4E-03	3.0E+00	-	na	1.4E-03	-	-	-	3.0E+00	-	-	1.4E-03
Ammonia-N (mg/l) (Yearly)	0.1	2.69E+01	3.36E+00	na	-	2.7E+01	3.4E+00	na	-	-	-	-	2.7E+01	3.4E+00	na	--
Ammonia-N (mg/l) (High Flow)	0.1	2.69E+01	5.14E+00	na	-	2.7E+01	5.1E+00	na	-	-	-	-	2.7E+01	5.1E+00	na	--
Anthracene	0	-	-	na	1.1E+05	-	na	1.1E+05	-	na	-	-	-	-	-	1.1E+05
Antimony	0	-	-	na	4.3E+03	-	na	4.3E+03	-	na	-	-	-	-	-	4.3E+03
Arsenic	0	3.4E+02	1.5E+02	na	-	3.4E+02	1.5E+02	na	-	-	-	-	3.4E+02	1.5E+02	na	--
Barium	0	-	-	na	-	-	na	-	-	na	-	-	-	-	-	na
Benzene ^c	0	-	-	na	7.1E+02	-	na	7.1E+02	-	na	-	-	-	-	-	7.1E+02
Benzidine ^c	0	-	-	na	5.4E-03	-	na	5.4E-03	-	na	-	-	-	-	-	5.4E-03
Benzo (a) anthracene ^c	0	-	-	na	4.9E-01	-	na	4.9E-01	-	na	-	-	-	-	-	4.9E-01
Benzo (b) fluoranthene ^c	0	-	-	na	4.9E-01	-	na	4.9E-01	-	na	-	-	-	-	-	4.9E-01
Benzo (k) fluoranthene ^c	0	-	-	na	4.9E-01	-	na	4.9E-01	-	na	-	-	-	-	-	4.9E-01
Benzo (a) pyrene ^c	0	-	-	na	5.2E+03	-	na	5.2E+03	-	na	-	-	-	-	-	5.2E+03
Bis2-Chloroethyl Ether	0	-	-	na	1.7E+05	-	na	1.7E+05	-	na	-	-	-	-	-	1.7E+05
Bromonform ^c	0	-	-	na	3.6E+03	-	na	3.6E+03	-	na	-	-	-	-	-	3.6E+03
Butylbenzylphthalate	0	-	-	na	5.3E+00	-	na	5.3E+00	-	na	-	-	-	-	-	5.3E+00
Cadmium	0	3.3E+00	1.0E+00	na	-	3.3E+00	1.0E+00	na	-	-	-	-	3.3E+00	1.0E+00	na	--
Carbon Tetrachloride ^c	0	-	-	na	4.4E+01	-	na	4.4E+01	-	na	-	-	-	-	-	4.4E+01
Chlordane ^c	0	2.4E+00	4.3E-03	na	2.2E-02	4.3E-03	na	2.2E-02	4.3E-03	na	-	-	2.4E+00	4.3E-03	na	2.2E-02
Chloride	0	8.6E-05	2.3E+05	na	-	8.6E+05	2.3E+05	na	-	-	-	-	8.6E+05	2.3E+05	na	--
TRC	0	1.9E+01	1.1E+01	na	-	1.9E+01	1.1E+01	na	-	-	-	-	1.9E+01	1.1E+01	na	--
Chlorobenzene	0	-	-	na	2.1E+04	-	na	2.1E+04	-	na	-	-	-	-	-	2.1E+04

Parameter (ug/l unless noted)	Background Conc.	Water Quality Criteria				Wasteload Allocations				Antidegradation Baseline				Antidegradation Allocations				Most Limiting Allocations				
		Acute	Chronic	HH (PWS)	HH	Acute	Chronic	HH (PWS)	HH	Acute	Chronic	HH (PWS)	HH	Acute	Chronic	HH (PWS)	HH	Acute	Chronic	HH (PWS)	HH	
Chlorodibromomethane ^c	0	-	-	na	3.4E+02	-	-	na	3.4E+02	-	-	na	-	-	-	-	-	-	na	3.4E+02	-	
Chloroform ^c	0	-	-	na	2.9E+04	-	-	na	2.9E+04	-	-	na	-	-	-	-	-	-	na	2.9E+04	-	
2-Chloronaphthalene	0	-	-	na	4.3E+03	-	-	na	4.3E+03	-	-	na	-	-	-	-	-	-	na	4.3E+03	-	
2-Chlorophenol	0	-	-	na	4.0E+02	-	-	na	4.0E+02	-	-	na	-	-	-	-	-	-	na	4.0E+02	-	
Chlorpyrifos	0	8.3E-02	4.1E-02	na	-	8.3E-02	4.1E-02	na	-	8.3E-02	4.1E-02	na	-	-	-	-	-	-	na	4.1E-02	-	
Chromium III	0	5.0E+02	6.5E+01	na	-	5.0E+02	6.5E+01	na	-	5.0E+02	6.5E+01	na	-	-	-	-	-	-	na	6.5E+01	-	
Chromium VI	0	1.6E+01	1.1E+01	na	-	1.6E+01	1.1E+01	na	-	1.6E+01	1.1E+01	na	-	-	-	-	-	-	na	1.1E+01	-	
Chromium, Total	0	-	-	na	-	-	-	na	-	-	-	na	-	-	-	-	-	-	na	-	-	
Chrysene ^c	0	-	-	na	4.9E-01	-	-	na	4.9E-01	-	-	na	-	-	-	-	-	-	na	4.9E-01	-	
Copper ^c	0	1.2E+01	7.8E+00	na	-	1.2E+01	7.8E+00	na	-	1.2E+01	7.8E+00	na	-	-	-	-	-	-	na	7.8E+00	-	
Cyanide	0	2.2E+01	5.2E+00	na	2.2E+05	5.2E+00	na	2.2E+05	5.2E+00	na	2.2E+05	5.2E+00	na	-	-	-	-	-	-	na	2.2E+05	-
DDD ^c	0	-	-	na	8.4E-03	-	-	na	8.4E-03	-	-	na	-	-	-	-	-	-	na	8.4E-03	-	
DDE ^c	0	-	-	na	5.9E-03	-	-	na	5.9E-03	-	-	na	-	-	-	-	-	-	na	5.9E-03	-	
DDT ^c	0	1.1E+00	1.0E-03	na	5.9E-03	-	1.1E+00	1.0E-03	na	5.9E-03	-	1.1E+00	1.0E-03	na	-	-	-	-	na	5.9E-03	-	
Demeton	0	-	1.0E-01	na	-	-	1.0E-01	na	-	1.0E-01	na	-	-	-	-	-	-	-	na	1.0E-01	-	
Dibenzo(a,h)anthracene ^c	0	-	-	na	4.9E-01	-	-	na	4.9E-01	-	-	na	-	-	-	-	-	-	na	4.9E-01	-	
Diethyl phthalate	0	-	-	na	1.2E+04	-	-	na	1.2E+04	-	-	na	-	-	-	-	-	-	na	1.2E+04	-	
Dichloromethane (Methylene Chloride) ^c	0	-	-	na	1.6E+04	-	-	na	1.6E+04	-	-	na	-	-	-	-	-	-	na	1.6E+04	-	
1,2-Dichlorobenzene	0	-	-	na	1.7E+04	-	-	na	1.7E+04	-	-	na	-	-	-	-	-	-	na	1.7E+04	-	
1,3-Dichlorobenzene	0	-	-	na	2.6E+03	-	-	na	2.6E+03	-	-	na	-	-	-	-	-	-	na	2.6E+03	-	
1,4-Dichlorobenzene	0	-	-	na	2.6E+03	-	-	na	2.6E+03	-	-	na	-	-	-	-	-	-	na	2.6E+03	-	
3,3-Dichlorobenzidine ^c	0	-	-	na	7.7E-01	-	-	na	7.7E-01	-	-	na	-	-	-	-	-	-	na	7.7E-01	-	
Dichlorobromomethane ^c	0	-	-	na	4.6E+02	-	-	na	4.6E+02	-	-	na	-	-	-	-	-	-	na	4.6E+02	-	
1,2-Dichloroethane ^c	0	-	-	na	9.9E+02	-	-	na	9.9E+02	-	-	na	-	-	-	-	-	-	na	9.9E+02	-	
1,1-Dichloroethylene	0	-	-	na	1.7E+04	-	-	na	1.7E+04	-	-	na	-	-	-	-	-	-	na	1.7E+04	-	
1,2-trans-dichloroethylene	0	-	-	na	1.4E+05	-	-	na	1.4E+05	-	-	na	-	-	-	-	-	-	na	1.4E+05	-	
2,4-Dichlorophenol	0	-	-	na	7.9E+02	-	-	na	7.9E+02	-	-	na	-	-	-	-	-	-	na	7.9E+02	-	
2,4-Dichlorophenoxy acetic acid (2,4-D)	0	-	-	na	-	-	-	na	-	-	na	-	-	-	-	-	-	-	na	-	-	
1,2-Dichloropropane ^c	0	-	-	na	3.9E+02	-	-	na	3.9E+02	-	-	na	-	-	-	-	-	-	na	3.9E+02	-	
1,3-Dichloropropene	0	-	-	na	1.7E+03	-	-	na	1.7E+03	-	-	na	-	-	-	-	-	-	na	1.7E+03	-	
Dieldrin ^c	0	2.4E-01	5.6E-02	na	1.4E-03	-	1.2E+05	-	2.4E-01	5.6E-02	na	1.4E-03	-	-	-	-	-	-	na	1.4E-03	-	
Diethyl Phthalate	0	-	-	na	5.9E+01	-	-	na	5.9E+01	-	-	na	-	-	-	-	-	-	na	1.2E+05	-	
Di-2-Ethylhexyl Phthalate ^c	0	-	-	na	2.3E+03	-	-	na	2.3E+03	-	-	na	-	-	-	-	-	-	na	5.9E+01	-	
2,4-Dimethylphenol	0	-	-	na	2.9E+06	-	-	na	2.9E+06	-	-	na	-	-	-	-	-	-	na	2.3E+03	-	
Dimethyl Phthalate	0	-	-	na	1.2E+04	-	-	na	1.2E+04	-	-	na	-	-	-	-	-	-	na	2.9E+06	-	
Di-n-Butyl Phthalate	0	-	-	na	1.4E+04	-	-	na	1.4E+04	-	-	na	-	-	-	-	-	-	na	1.2E+04	-	
2,4-Dinitrophenol	0	-	-	na	7.65E+02	-	-	na	7.65E+02	-	-	na	-	-	-	-	-	-	na	7.7E+02	-	
2-N-Methyl-4,6-Dinitrophenol	0	-	-	na	9.1E+01	-	-	na	9.1E+01	-	-	na	-	-	-	-	-	-	na	9.1E+01	-	
2,4-Dinitrotoluene ^c	0	-	-	na	1.8E+00	-	-	na	1.8E+00	-	-	na	-	-	-	-	-	-	na	1.8E+00	-	
Dioxin (2,3,7,8-tetrachlorodibenzo-p-dioxin) (ppq)	0	-	-	na	1.2E-06	-	-	na	1.2E-06	-	-	na	-	-	-	-	-	-	na	-	-	
1,2-Diphenylhydrazine ^c	0	-	-	na	5.4E+00	-	-	na	5.4E+00	-	-	na	-	-	-	-	-	-	na	5.4E+00	-	
Alpha-Endosulfan	0	2.2E-01	5.6E-02	na	2.4E+02	2.2E-01	5.6E-02	na	2.4E+02	2.2E-01	5.6E-02	na	-	-	-	-	-	-	na	2.4E+02	-	
Beta-Endosulfan	0	2.2E-01	5.6E-02	na	2.4E+02	2.2E-01	5.6E-02	na	2.4E+02	2.2E-01	5.6E-02	na	-	-	-	-	-	-	na	2.4E+02	-	
Endosulfan Sulfate	0	8.6E-02	3.6E-02	na	8.1E-01	-	8.6E-02	3.6E-02	na	8.1E-01	-	8.6E-02	-	-	-	-	-	-	na	8.1E-01	-	
Endrin	0	-	-	na	1.8E+00	-	-	na	1.8E+00	-	-	na	-	-	-	-	-	-	na	1.8E+00	-	
Endrin Aldehyde	0	-	-	na	-	-	-	na	-	-	-	na	-	-	-	-	-	-	na	-	-	

Parameter (ug/l unless noted)	Background Conc.	Water Quality Criteria			Wasteload Allocations			Antidegradation Baseline			Antidegradation Allocations			Most Limiting Allocations		
		Acute	Chronic	HH (PWS)	HH	Acute	Chronic	HH (PWS)	HH	Acute	Chronic	HH (PWS)	HH	Acute	Chronic	HH (PWS)
Ethylbenzene	0	-	-	na	2.9E+04	-	-	na	2.9E+04	-	-	-	-	-	-	2.9E+04
Fluoranthene	0	-	-	na	3.7E+02	-	-	na	3.7E+02	-	-	-	-	-	-	3.7E+02
Fluorene	0	-	-	na	1.4E+04	-	-	na	1.4E+04	-	-	-	-	-	-	1.4E+04
Foaming Agents	0	-	-	na	-	-	-	na	-	-	-	-	-	-	-	na
Guthion	0	-	1.0E-02	na	-	-	-	1.0E-02	na	-	-	-	-	-	-	na
Heptachlor	c	0	5.2E-01	3.8E-03	na	2.1E-03	5.2E-01	3.8E-03	na	2.1E-03	-	-	-	-	-	5.2E-01
Hepachlor Epoxide	c	0	5.2E-01	3.8E-03	na	1.1E-03	5.2E-01	3.8E-03	na	1.1E-03	-	-	-	-	-	5.2E-01
Hexachlorobenzene	c	0	-	na	7.7E-03	-	-	na	7.7E-03	-	-	-	-	-	-	7.7E-03
Hexachlorobutadiene	c	0	-	na	5.0E+02	-	-	na	5.0E+02	-	-	-	-	-	-	5.0E+02
Hexachlorocyclohexane		0	-	na	1.3E-01	-	-	na	1.3E-01	-	-	-	-	-	-	1.3E-01
Alpha-BHC	c		-	na	4.6E-01	-	-	na	4.6E-01	-	-	-	-	-	-	4.6E-01
Hexachlorocyclohexane		Beta-BHC	c		-	na	4.6E-01	-	-	na	4.6E-01	-	-	-	-	4.6E-01
Beta-BHC	c		-	na	8.9E+01	-	-	na	8.9E+01	-	-	-	-	-	-	8.9E+01
Hexachlorocyclohexane				Gamma-BHC	c	(Lindane)	0	9.5E-01	na	6.3E-01	9.5E-01	-	-	-	-	9.5E-01
Indeno (1,2,3-cd) pyrene	c				0	-	na	1.7E+04	-	na	1.7E+04	-	-	-	-	1.7E+04
Iron					0	-	na	2.0E+00	-	na	2.0E+00	-	-	-	-	2.0E+00
Isophorone	c				0	-	na	4.9E-01	-	na	4.9E-01	-	-	-	-	4.9E-01
Kepone					0	-	na	2.6E+04	-	na	2.6E+04	-	-	-	-	2.6E+04
Lead					0	-	na	0.0E+00	-	na	0.0E+00	-	-	-	-	0.0E+00
Malathion					0	-	na	9.8E+01	-	na	9.8E+01	-	-	-	-	9.8E+01
Manganese					0	-	na	1.0E-01	-	na	1.0E-01	-	-	-	-	1.0E-01
Mercury					0	-	na	1.4E+00	-	na	1.4E+00	-	-	-	-	1.4E+00
Methyl Bromide					0	-	na	4.0E-01	-	na	4.0E-01	-	-	-	-	4.0E-01
Methoxychlor					0	-	na	3.0E-02	-	na	3.0E-02	-	-	-	-	3.0E-02
Mirex					0	-	na	0.0E+00	-	na	0.0E+00	-	-	-	-	0.0E+00
Monochlorobenzene					0	-	na	2.1E+04	-	na	2.1E+04	-	-	-	-	2.1E+04
Nickel					0	1.6E+02	1.8E+01	4.6E+03	1.6E+02	1.8E+01	4.6E+03	-	-	-	-	4.6E+03
Nitrate (as N)					0	-	na	-	-	na	-	-	-	-	-	-
Nitrobenzene					0	-	na	1.9E+03	-	na	1.9E+03	-	-	-	-	1.9E+03
N-Nitrosodimethylamine	c				0	-	na	8.1E+01	-	na	8.1E+01	-	-	-	-	8.1E+01
N-Nitrosodiphenylamine	c				0	-	na	1.6E+02	-	na	1.6E+02	-	-	-	-	1.6E+02
N-Nitrosodi-n-propylamine	c				0	-	na	1.4E+01	-	na	1.4E+01	-	-	-	-	1.4E+01
Parathion					0	6.5E-02	1.3E-02	na	-	6.5E-02	1.3E-02	na	-	-	-	6.5E-02
PCB-1016					0	-	1.4E-02	na	-	-	1.4E-02	na	-	-	-	1.4E-02
PCB-1221					0	-	1.4E-02	na	-	-	1.4E-02	na	-	-	-	1.4E-02
PCB-1232					0	-	1.4E-02	na	-	-	1.4E-02	na	-	-	-	1.4E-02
PCB-1242					0	-	1.4E-02	na	-	-	1.4E-02	na	-	-	-	1.4E-02
PCB-1248					0	-	1.4E-02	na	-	-	1.4E-02	na	-	-	-	1.4E-02
PCB-1254					0	-	1.4E-02	na	-	-	1.4E-02	na	-	-	-	1.4E-02
PCB-1260					0	-	1.4E-02	na	-	-	1.4E-02	na	-	-	-	1.4E-02
PCB Total	c				0	-	na	1.7E-03	-	na	1.7E-03	-	-	-	-	1.7E-03

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Pentachlorophenol ^c	0	3.5E+00	2.7E+00	na	8.2E+01	3.5E+00	2.7E+00	na	8.2E+01	4.6E+06	1.1E+04	na	4.6E+06	1.1E+04	na	4.6E+06	1.1E+04	na	4.6E+06	1.1E+04	na	3.5E+00	2.7E+00	na	8.2E+01	4.6E+06	na	8.2E+01			
Phenol	0	-	-	na	4.6E+06	-	-	na	4.6E+06	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	4.6E+06		
Pyrene	0	-	-	na	1.1E+04	-	-	na	1.1E+04	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	1.1E+04		
Radiionuclides (pCi/l except Beta/Photon)	0	-	-	na	-	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	1.5E+01
Gross Alpha Activity	0	-	-	na	1.5E+01	-	-	na	1.5E+01	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	1.5E+01		
Beta and Photon Activity (rem/mlyr)	0	-	-	na	4.0E+00	-	-	na	4.0E+00	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	4.0E+00		
Strontium-90	0	-	-	na	8.0E+00	-	-	na	8.0E+00	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	8.0E+00		
Tritium	0	-	-	na	2.0E+04	-	-	na	2.0E+04	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	2.0E+04		
Selenium	0	2.0E+01	5.0E+00	na	1.1E+04	2.0E+01	5.0E+00	na	1.1E+04	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	1.1E+04		
Silver	0	2.6E+00	-	na	-	2.6E+00	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	2.6E+00
Sulfate	0	-	-	na	-	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	1.1E+02
1,1,2,2-Tetrachloroethane ^c	0	-	-	na	1.1E+02	-	-	na	1.1E+02	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	8.9E+01		
Tetrachloroethylene ^c	0	-	-	na	8.9E+01	-	-	na	8.9E+01	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	6.3E+00		
Thallium	0	-	-	na	6.3E+00	-	-	na	6.3E+00	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	2.0E+05		
Toluene	0	-	-	na	2.0E+05	-	-	na	2.0E+05	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-		
Total dissolved solids	0	-	-	na	-	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-
Toxaphene ^c	0	7.3E-01	2.0E-04	na	7.5E-03	7.3E-01	2.0E-04	na	7.5E-03	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	7.5E-03		
Tributyltin	0	4.6E-01	6.3E-02	na	-	4.6E-01	6.3E-02	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	4.6E-01			
1,2,4-Trichlorobenzene	0	-	-	na	9.4E+02	-	-	na	9.4E+02	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	9.4E+02		
1,1,2-Trichloroethane ^c	0	-	-	na	4.2E+02	-	-	na	4.2E+02	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	4.2E+02		
Trichloroethylene ^c	0	-	-	na	8.1E+02	-	-	na	8.1E+02	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	8.1E+02		
2,4,6-Trichlorophenol ^c	0	-	-	na	6.5E+01	-	-	na	6.5E+01	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	6.5E+01		
2-(2,4,5-Trichlorophenoxy) propionic acid (Silvex)	0	-	-	na	6.1E+01	-	-	na	6.1E+01	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	6.1E+01		
Vinyl Chloride ^c	0	1.0E+02	1.0E+02	na	6.9E+04	1.0E+02	1.0E+02	na	6.9E+04	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	6.9E+04		
Zinc	0	-	-	na	-	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	-	na	-	1.0E+02

Notes:

- All concentrations expressed as micrograms/liter (ug/l), unless noted otherwise
- Discharge flow is highest monthly average or Form 2C maximum for Industries and design flow for Municipal
- Metals measured as Dissolved, unless specified otherwise
- "C" indicates a carcinogenic parameter
- Regular WLAs are mass balances (minus background concentration) using the % of stream flow entered above under Mixing Information. Antidegradation WLAs are based upon a complete mix.
- Antideg. Baseline = (0.25(WQC - background conc.) + background conc.) for acute and chronic
- WLAs established at the following stream flows: 1Q10 for Acute, 3Q10 for Chronic Ammonia, 7Q10 for Other Chronic, 3Q05 for Non-carcinogens, Harmonic Mean for Carcinogens, and Annual Average for Dioxin. Mixing ratios may be substituted for stream flows where appropriate.

Metal	Target Value (SSTV)
Antimony	4.3E+03
Arsenic	9.0E+01
Barium	na
Cadmium	6.0E-01
Chromium III	3.9E+01
Chromium VI	6.4E+00
Copper	4.6E+00
Iron	na
Lead	6.6E+00
Manganese	na
Mercury	5.1E-02
Nickel	1.1E+01
Selenium	3.0E+00
Silver	1.1E+00
Zinc	4.1E+01

Process Waste Water

FRESHWATER WATER QUALITY CRITERIA / WASTELOAD ALLOCATION ANALYSIS

Facility Name: Taylor Ramsey RO Unit

Receiving Stream: UT Tommeheton Creek

Permit No.: VA0081213

Version: OWP Guidance Memo 00-2011 (8/24/00)

Stream Information		Mixing Information		Effluent Information	
Mean Hardness (as CaCO ₃) =	302 mg/L	1Q10 (Annual) =	0 MGD	100 %	302 mg/L
90% Temperature (Annual) =	21.1 deg C	7Q10 (Annual) =	0 MGD	100 %	21.1 deg C
90% Temperature (Wet season) =	21.1 deg C	30Q10 (Annual) =	0 MGD	100 %	21.1 deg C
90% Maximum pH =	6.64 SU	1Q10 (Wet season) =	0 MGD	Wet Season - 1Q10 Mix =	6.64 SU
10% Maximum pH =	6.1 SU	30Q10 (Wet season) =	0 MGD	- 30Q10 Mix =	6.1 SU
Tier Designation (1 or 2) =	1	30Q5 =	0 MGD	10% Maximum pH =	0.0025 MGD
Public Water Supply (PWS) Y/N? =	n	Harmonic Mean =	0 MGD	Discharge Flow =	
Trout Present Y/N? =	n	Annual Average =	0 MGD		
Early Life Stages Present Y/N? =	y				

Parameter (ug/l unless noted)	Background Conc.	Water Quality Criteria			Wasteload Allocations			Antidegradation Baseline			Antidegradation Allocations			Most Limiting Allocations		
		Acute	Chronic	HH (PWS)	Acute	Chronic	HH (PWS)	Acute	Chronic	HH (PWS)	Acute	Chronic	HH (PWS)	Acute	Chronic	HH (PWS)
Aceanthrene	0	—	—	na	2.7E+03	—	na	2.7E+03	—	—	—	—	—	—	—	na
Acrolein	0	—	—	na	7.8E+02	—	na	7.8E+02	—	—	—	—	—	—	—	na
Acrylonitrile ^c	0	—	—	na	6.6E+00	—	na	6.6E+00	—	—	—	—	—	—	—	na
Aldrin ^c	0	3.0E+00	—	na	1.4E-03	3.0E+00	—	na	1.4E-03	—	—	—	—	3.0E+00	—	na
Ammonia-N (mg/l) (Yearly)	0.1	4.60E+01	4.26E+00	na	—	4.6E+01	4.3E+00	na	—	—	—	—	—	4.6E+01	4.3E+00	na
Ammonia-N (mg/l) (High Flow)	0.1	4.60E+01	4.26E+00	na	—	4.6E+01	4.3E+00	na	—	—	—	—	—	4.6E+01	4.3E+00	na
Anthracene	0	—	—	na	1.1E+05	—	na	1.1E+05	—	—	—	—	—	—	—	na
Antimony	0	—	—	na	4.3E+03	—	na	4.3E+03	—	—	—	—	—	—	—	na
Arsenic	0	3.4E+02	1.5E+02	na	—	3.4E+02	1.5E+02	na	—	—	—	—	—	3.4E+02	1.5E+02	na
Barium	0	—	—	na	—	—	na	—	—	—	—	—	—	—	—	na
Benzene ^c	0	—	—	na	7.1E+02	—	na	7.1E+02	—	—	—	—	—	—	—	na
Benzidine ^c	0	—	—	na	5.4E-03	—	na	5.4E-03	—	—	—	—	—	—	—	na
Benzo (a) anthracene ^c	0	—	—	na	4.9E-01	—	na	4.9E-01	—	—	—	—	—	—	—	na
Benzo (b) fluoranthene ^c	0	—	—	na	4.9E-01	—	na	4.9E-01	—	—	—	—	—	—	—	na
Benzo (K) fluoranthene ^c	0	—	—	na	4.9E-01	—	na	4.9E-01	—	—	—	—	—	—	—	na
Benzo (a) pyrene ^c	0	—	—	na	4.9E-01	—	na	4.9E-01	—	—	—	—	—	—	—	na
Bis2-Chloroethyl Ether	0	—	—	na	1.4E+01	—	na	1.4E+01	—	—	—	—	—	—	—	na
Bromofom ^c	0	—	—	na	3.6E+03	—	na	3.6E+03	—	—	—	—	—	—	—	na
Butylbenzylphthalate	0	—	—	na	5.2E+03	—	na	5.2E+03	—	—	—	—	—	—	—	na
Cadmium	0	1.4E+01	2.7E+00	na	—	1.4E+01	2.7E+00	na	—	—	—	—	—	1.4E+01	2.7E+00	na
Carbon Tetrachloride ^c	0	—	—	na	4.4E+01	—	na	4.4E+01	—	—	—	—	—	—	—	na
Chlordane ^c	0	2.4E+00	4.3E-03	na	2.2E-02	2.4E+00	4.3E-03	na	2.2E-02	—	—	—	—	2.4E+00	4.3E-03	na
Chloride	0	8.6E+05	2.3E+05	na	—	8.6E+05	2.3E+05	na	—	—	—	—	—	8.6E+05	2.3E+05	na
TRC	0	1.9E+01	1.1E+01	na	—	1.9E+01	1.1E+01	na	—	—	—	—	—	1.9E+01	1.1E+01	na
Chlorobenzene	0	—	—	na	2.1E+04	—	na	2.1E+04	—	—	—	—	—	—	—	na

Parameter (ug/l unless noted)	Background Conc.	Water Quality Criteria			Wasteload Allocations			Antidegradation Baseline			Antidegradation Allocations			Most Limiting Allocations		
		Acute	Chronic	HH (PWS)	Acute	Chronic	HH	Acute	Chronic	HH (PWS)	Acute	Chronic	HH	Acute	Chronic	HH (PWS)
Chlorodibromomethane ^c	0	-	-	na	3.4E+02	-	na	3.4E+02	-	na	-	-	-	-	-	3.4E+02
Chloroform ^c	0	-	-	na	2.9E+04	-	na	2.9E+04	-	na	-	-	-	-	-	2.9E+04
2-Chloronaphthalene	0	-	-	na	4.3E+03	-	na	4.3E+03	-	na	-	-	-	-	-	4.3E+03
2-Chlorophenol	0	-	-	na	4.0E+02	-	na	4.0E+02	-	na	-	-	-	-	-	4.0E+02
Chlorpyrifos	0	8.3E-02	4.1E-02	na	-	8.3E-02	4.1E-02	na	-	na	8.3E-02	4.1E-02	na	-	-	4.1E-02
Chromium III	0	1.4E+03	1.8E+02	na	-	1.4E+03	1.8E+02	na	-	na	1.4E+03	1.8E+02	na	-	-	1.8E+02
Chromium VI	0	1.6E+01	1.1E+01	na	-	1.6E+01	1.1E+01	na	-	na	1.6E+01	1.1E+01	na	-	-	1.1E+01
Chromium, Total	0	-	-	na	-	-	na	-	-	na	-	-	-	-	-	-
Chrysene ^c	0	-	-	na	4.9E-01	-	na	4.9E-01	-	na	-	-	-	-	-	4.9E-01
Copper	0	3.8E+01	2.3E+01	na	-	3.8E+01	2.3E+01	na	-	na	3.8E+01	2.3E+01	na	-	-	2.3E+01
Cyanide	0	2.2E+01	5.2E+00	na	2.2E+05	2.2E+01	5.2E+00	na	2.2E+05	2.2E+01	5.2E+00	na	2.2E+05	2.2E+01	5.2E+00	2.2E+05
DDD ^c	0	-	-	na	8.4E-03	-	na	8.4E-03	-	na	-	-	-	-	-	8.4E-03
DDE ^c	0	-	-	na	5.9E-03	-	na	5.9E-03	-	na	-	-	-	-	-	5.9E-03
DDT ^c	0	1.1E+00	1.0E-03	na	5.9E-03	1.1E+00	1.0E-03	na	5.9E-03	-	1.1E+00	1.0E-03	na	-	-	5.9E-03
Demeton	0	-	-	na	1.0E-01	-	na	1.0E-01	-	na	-	-	-	-	-	1.0E-01
Dibenzo(a,h)anthracene ^c	0	-	-	na	4.9E-01	-	na	4.9E-01	-	na	-	-	-	-	-	4.9E-01
Diethyl phthalate	0	-	-	na	1.2E+04	-	na	1.2E+04	-	na	-	-	-	-	-	1.2E+04
Dichloromethane (Methylene Chloride) ^c	0	-	-	na	1.6E+04	-	na	1.6E+04	-	na	-	-	-	-	-	1.6E+04
1,2-Dichlorobenzene	0	-	-	na	1.7E+04	-	na	1.7E+04	-	na	-	-	-	-	-	1.7E+04
1,3-Dichlorobenzene	0	-	-	na	2.6E+03	-	na	2.6E+03	-	na	-	-	-	-	-	2.6E+03
1,4-Dichlorobenzene	0	-	-	na	2.6E+03	-	na	2.6E+03	-	na	-	-	-	-	-	2.6E+03
3,3-Dichlorobenzidine ^c	0	-	-	na	7.7E-01	-	na	7.7E-01	-	na	-	-	-	-	-	7.7E-01
Dichlorobromomethane ^c	0	-	-	na	4.6E+02	-	na	4.6E+02	-	na	-	-	-	-	-	4.6E+02
1,2-Dichloroethane ^c	0	-	-	na	9.9E+02	-	na	9.9E+02	-	na	-	-	-	-	-	9.9E+02
1,1-Dichloroethylene	0	-	-	na	1.7E+04	-	na	1.7E+04	-	na	-	-	-	-	-	1.7E+04
1,2-trans-dichloroethylene	0	-	-	na	1.4E+05	-	na	1.4E+05	-	na	-	-	-	-	-	1.4E+05
2,4-Dichlorophenol	0	-	-	na	7.9E+02	-	na	7.9E+02	-	na	-	-	-	-	-	7.9E+02
2,4-Dichlorophenoxy acetic acid (2,4-D)	0	-	-	na	-	-	na	-	-	na	-	-	-	-	-	-
1,2-Dichloropropane ^c	0	-	-	na	3.9E+02	-	na	3.9E+02	-	na	-	-	-	-	-	3.9E+02
1,3-Dichloropropene	0	-	-	na	1.7E+03	-	na	1.7E+03	-	na	-	-	-	-	-	1.7E+03
Dieldrin ^c	0	2.4E-01	5.6E-02	na	1.4E-03	2.4E-01	5.6E-02	na	1.4E-03	-	2.4E-01	5.6E-02	na	-	-	1.4E-03
Diethyl Phthalate	0	-	-	na	1.2E+05	-	na	1.2E+05	-	na	-	-	-	-	-	1.2E+05
Di-2-Ethylhexyl Phthalate ^c	0	-	-	na	5.9E+01	-	na	5.9E+01	-	na	-	-	-	-	-	5.9E+01
2,4-Dimethylphenol	0	-	-	na	2.3E+03	-	na	2.3E+03	-	na	-	-	-	-	-	2.3E+03
Dimethyl Phthalate	0	-	-	na	2.9E+06	-	na	2.9E+06	-	na	-	-	-	-	-	2.9E+06
Di-n-Butyl Phthalate	0	-	-	na	1.2E+04	-	na	1.2E+04	-	na	-	-	-	-	-	1.2E+04
2,4-Dinitrophenol	0	-	-	na	1.4E+04	-	na	1.4E+04	-	na	-	-	-	-	-	1.4E+04
2-Methyl-4,6-Dinitrophenol	0	-	-	na	7.65E+02	-	na	7.7E+02	-	na	-	-	-	-	-	7.7E+02
2,4-Dinitrotoluene ^c	0	-	-	na	9.1E+01	-	na	9.1E+01	-	na	-	-	-	-	-	9.1E+01
Dioxin (2,3,7,8-tetrachlorodibenzo-p-dioxin) (ppq)	0	-	-	na	1.2E+06	-	na	1.2E+06	-	na	-	-	-	-	-	na
1,2-Diphenylhydrazine ^c	0	-	-	na	5.4E+00	-	na	5.4E+00	-	na	-	-	-	-	-	5.4E+00
Alpha-Endosulfan	0	2.2E-01	5.6E-02	na	2.4E+02	2.2E-01	5.6E-02	na	2.4E+02	-	2.2E-01	5.6E-02	na	-	-	2.4E+02
Beta-Endosulfan	0	2.2E-01	5.6E-02	na	2.4E+02	2.2E-01	5.6E-02	na	2.4E+02	-	2.2E-01	5.6E-02	na	-	-	2.4E+02
Endosulfan Sulfate	0	-	-	na	2.4E+02	-	na	2.4E+02	-	na	-	-	-	-	-	2.4E+02
Endrin	0	8.6E-02	3.6E-02	na	8.1E-01	8.6E-02	3.6E-02	na	8.1E-01	-	8.6E-02	3.6E-02	na	-	-	8.1E-01
Endrin Aldehyde	0	-	-	na	1.8E+00	-	na	1.8E+00	-	na	-	-	-	-	-	1.8E+00

Parameter (ug/l unless noted)	Background Conc.	Water Quality Criteria				Wasteload Allocations				Antidegradation Baseline				Antidegradation Allocations				Most Limiting Allocations	
		Acute	Chronic	H-H (PWS)	HH	Acute	Chronic	H-H (PWS)	HH	Acute	Chronic	H-H (PWS)	HH	Acute	Chronic	H-H (PWS)	HH	Acute	Chronic
Ethylbenzene	0	-	-	na	2.9E+04	-	-	na	2.9E+04	-	-	-	-	-	-	-	na	2.9E+04	
Fluoranthene	0	-	-	na	3.7E+02	-	-	na	3.7E+02	-	-	-	-	-	-	-	na	3.7E+02	
Fluorene	0	-	-	na	1.4E+04	-	-	na	1.4E+04	-	-	-	-	-	-	-	na	1.4E+04	
Foaming Agents	0	-	-	na	-	-	-	na	-	-	-	-	-	-	-	-	na	-	
Guthion	0	-	1.0E-02	na	-	-	-	1.0E-02	na	-	-	-	-	-	-	-	1.0E-02	na	
Heptachlor	c	0	5.2E-01	3.8E-03	na	2.1E-03	5.2E-01	3.8E-03	na	2.1E-03	5.2E-01	3.8E-03	na	5.2E-01	3.8E-03	na	5.2E-01	3.8E-03	
Heptachlor Epoxide	c	0	5.2E-01	3.8E-03	na	1.1E-03	5.2E-01	3.8E-03	na	1.1E-03	5.2E-01	3.8E-03	na	5.2E-01	3.8E-03	na	5.2E-01	3.8E-03	
Hexachlorobenzene	c	0	-	-	na	7.7E-03	-	-	na	7.7E-03	-	-	na	-	-	-	na	7.7E-03	
Hexachlorobutadiene	c	0	-	-	na	5.0E+02	-	-	na	5.0E+02	-	-	na	-	-	-	na	5.0E+02	
Hexachlorocyclohexane																			
Alpha-BHC	c	0	-	-	na	1.3E-01	-	-	na	1.3E-01	-	-	na	-	-	-	na	1.3E-01	
Hexachlorocyclohexane																			
Beta-BHC	c	0	-	-	na	4.6E-01	-	-	na	4.6E-01	-	-	na	-	-	-	na	4.6E-01	
Hexachlorocyclohexane																			
Gamma-BHC (Lindane)	c	0	9.5E-01	na	na	6.3E-01	9.5E-01	-	na	6.3E-01	-	-	na	9.5E-01	-	na	9.5E-01	-	
Hexachlorocyclopentadiene																			
Hexachloroethane	c	0	-	-	na	8.9E+01	-	-	na	8.9E+01	-	-	na	-	-	-	na	8.9E+01	
Hydrogen Sulfide						2.0E+00	na	-	2.0E+00	na	-	-	2.0E+00	-	-	-	na	-	
Indeno (1,2,3-cd) pyrene	c	0	-	-	na	4.9E-01	-	-	na	4.9E-01	-	-	na	-	-	-	na	4.9E-01	
Iron						-	na	-	na	-	-	-	-	-	-	-	na	-	
Isophorone	c	0	-	0.0E+00	na	2.6E+04	-	0.0E+00	na	2.6E+04	-	-	0.0E+00	-	-	-	na	2.6E+04	
Kepone						4.9E+02	5.5E+01	na	-	4.9E+02	5.5E+01	na	-	-	-	4.9E+02	5.5E+01	na	
Lead		0	-	1.0E-01	na	-	1.0E-01	na	-	1.0E-01	na	-	-	-	-	-	1.0E-01	na	
Malathion		0	-	3.0E-02	na	-	3.0E-02	na	-	3.0E-02	na	-	-	-	-	-	3.0E-02	na	
Manganese		0	-	0.0E+00	na	-	0.0E+00	na	-	0.0E+00	na	-	-	-	-	-	0.0E+00	na	
Mercury		0	1.4E+00	7.7E-01	na	5.1E-02	1.4E+00	7.7E-01	na	5.1E-02	1.4E+00	7.7E-01	na	1.4E+00	7.7E-01	na	5.1E-02	1.4E+00	
Methyl Bromide		0	-	na	4.0E+03	-	-	na	4.0E+03	-	-	na	4.0E+03	-	-	-	na	4.0E+03	
Methoxychlor		0	-	3.0E-02	na	-	3.0E-02	na	-	3.0E-02	na	-	-	-	-	-	3.0E-02	na	
Mirex		0	-	0.0E+00	na	-	0.0E+00	na	-	0.0E+00	na	-	-	-	-	-	0.0E+00	na	
Monochlorobenzene						-	na	2.1E+04	-	-	na	2.1E+04	-	-	-	-	na	2.1E+04	
Nickel	0	4.6E+02	5.2E+01	na	4.6E+03	4.6E+02	5.2E+01	na	4.6E+03	4.6E+02	5.2E+01	na	4.6E+03	4.6E+02	5.2E+01	na	4.6E+03	4.6E+02	
Nitrate (as N)	0	-	-	na	-	-	-	na	-	-	na	-	-	-	-	-	na	-	
Nitrobenzene		0	-	-	na	1.9E+03	-	-	na	1.9E+03	-	-	na	-	-	-	na	1.9E+03	
N-Nitrosodimethylamine	c	0	-	-	na	8.1E+01	-	-	na	8.1E+01	-	-	na	-	-	-	na	8.1E+01	
N-Nitrosodiphenylamine	c	0	-	-	na	1.6E+02	-	-	na	1.6E+02	-	-	na	-	-	-	na	1.6E+02	
N-Nitrosod-n-propylamine	c	0	-	-	na	1.4E+01	-	-	na	1.4E+01	-	-	na	-	-	-	na	1.4E+01	
Parathion		0	6.5E-02	1.3E-02	na	-	6.5E-02	1.3E-02	na	-	6.5E-02	1.3E-02	na	-	-	-	6.5E-02	1.3E-02	
PCB-1016	0	-	1.4E-02	na	-	-	1.4E-02	na	-	1.4E-02	na	-	-	-	-	-	1.4E-02	na	
PCB-1221	0	-	1.4E-02	na	-	-	1.4E-02	na	-	1.4E-02	na	-	-	-	-	-	1.4E-02	na	
PCB-1232	0	-	1.4E-02	na	-	-	1.4E-02	na	-	1.4E-02	na	-	-	-	-	-	1.4E-02	na	
PCB-1242	0	-	1.4E-02	na	-	-	1.4E-02	na	-	1.4E-02	na	-	-	-	-	-	1.4E-02	na	
PCB-1248	0	-	1.4E-02	na	-	-	1.4E-02	na	-	1.4E-02	na	-	-	-	-	-	1.4E-02	na	
PCB-1254	0	-	1.4E-02	na	-	-	1.4E-02	na	-	1.4E-02	na	-	-	-	-	-	1.4E-02	na	
PCB-1260	0	-	1.4E-02	na	-	-	1.4E-02	na	-	1.4E-02	na	-	-	-	-	-	1.4E-02	na	
PCB Total ^c	0	-	na	1.7E-03	-	-	na	1.7E-03	-	-	na	1.7E-03	-	-	-	-	na	1.7E-03	

Parameter (ug/l unless noted)	Background Conc.	Water Quality Criteria						Wasteload Allocations						Antidegradation Baseline						Antidegradation Allocations						Most Limiting Allocations						
		Acute	Chronic	HH (PWS)	HH	Acute	Chronic	HH (PWS)	HH	Acute	Chronic	HH (PWS)	HH	Acute	Chronic	HH (PWS)	HH	Acute	Chronic	HH (PWS)	HH	3.5E+00	2.7E+00	na	8.2E+01	3.5E+00	2.7E+00	na	8.2E+01			
Pentachlorophenol ^c	0	3.5E+00	2.7E+00	na	8.2E+01	3.5E+00	2.7E+00	na	8.2E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.6E+06	4.6E+06			
Phenol	0	-	-	na	4.6E+06	-	-	na	4.6E+06	-	-	na	1.1E+04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1E+04	1.1E+04		
Pyrene	0	-	-	na	1.1E+04	-	-	na	1.1E+04	-	-	na	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	na	na		
Radionuclides (pCi/l) except Beta/Photon	0	-	-	na	1.5E+01	-	-	na	1.5E+01	-	-	na	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5E+01	1.5E+01		
Gross Alpha Activity	0	-	-	na	4.0E+00	-	-	na	4.0E+00	-	-	na	8.0E+00	-	-	na	8.0E+00	-	-	-	-	-	-	-	-	-	-	8.0E+00	8.0E+00			
Beta and Photon Activity (mrem/yr)	0	-	-	na	1.1E+04	-	-	na	1.1E+04	-	-	na	2.0E+04	-	-	na	2.0E+04	-	-	-	-	-	-	-	-	-	-	2.0E+04	2.0E+04			
Stronium-90	0	-	-	na	2.0E+01	5.0E+00	na	1.1E+04	2.0E+01	5.0E+00	na	1.1E+04	-	-	na	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1E+04	1.1E+04		
Tritium	0	-	-	na	2.3E+01	-	-	na	2.3E+01	-	-	na	-	-	-	na	-	-	-	-	-	-	-	-	-	-	-	-	-	na	na	
Selenium	0	-	-	na	-	-	-	na	-	-	na	-	-	-	na	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	0	-	-	na	-	-	-	na	-	-	na	-	-	-	na	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sulfate	0	-	-	na	-	-	-	na	-	-	na	-	-	-	na	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane ^c	0	-	-	na	1.1E+02	-	-	na	1.1E+02	-	-	na	8.9E+01	-	-	na	8.9E+01	-	-	-	-	-	-	-	-	-	-	-	1.1E+02	1.1E+02		
Tetrachloroethylene ^c	0	-	-	na	8.9E+01	-	-	na	8.9E+01	-	-	na	6.3E+00	-	-	na	6.3E+00	-	-	-	-	-	-	-	-	-	-	-	8.9E+01	8.9E+01		
Thallium	0	-	-	na	2.0E+05	-	-	na	2.0E+05	-	-	na	2.0E+05	-	-	na	2.0E+05	-	-	-	-	-	-	-	-	-	-	-	-	2.0E+05	2.0E+05	
Toluene	0	-	-	na	-	-	-	na	-	-	na	-	-	-	na	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total dissolved solids	0	-	-	na	-	-	-	na	-	-	na	-	-	-	na	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toxaphene ^c	0	7.3E-01	2.0E-04	na	7.5E-03	7.3E-01	2.0E-04	na	7.5E-03	-	-	na	7.5E-03	-	-	na	7.5E-03	-	-	-	-	-	-	-	-	-	7.5E-03	7.5E-03				
Tributyltin	0	4.6E-01	6.3E-02	na	-	4.6E-01	6.3E-02	na	-	-	na	9.4E+02	-	-	na	9.4E+02	-	-	-	-	-	-	-	-	-	-	-	-	4.6E-01	4.6E-01		
1,2,4-Trichlorobenzene	0	-	-	na	4.2E+02	-	-	na	4.2E+02	-	-	na	4.2E+02	-	-	na	4.2E+02	-	-	-	-	-	-	-	-	-	-	-	9.4E+02	9.4E+02		
1,1,2-Trichloroethane ^c	0	-	-	na	8.1E+02	-	-	na	8.1E+02	-	-	na	6.5E+01	-	-	na	6.5E+01	-	-	-	-	-	-	-	-	-	-	-	4.2E+02	4.2E+02		
Trichloroethylene ^c	0	-	-	na	6.5E+01	-	-	na	6.5E+01	-	-	na	6.5E+01	-	-	na	6.5E+01	-	-	-	-	-	-	-	-	-	-	-	8.1E+02	8.1E+02		
2,4,6-Trichlorophenol ^c	0	-	-	na	-	-	-	na	-	-	na	-	-	-	na	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.5E+01	6.5E+01
2-(2,4,5-Trichlorophenoxy) propionic acid (Silvex)	0	-	-	na	6.1E+01	-	-	na	6.1E+01	-	-	na	6.1E+01	-	-	na	6.1E+01	-	-	-	-	-	-	-	-	-	-	-	6.1E+01	6.1E+01		
Vinyl Chloride ^c	0	-	-	na	3.0E+02	3.0E+02	na	6.9E+04	3.0E+02	3.0E+02	na	6.9E+04	-	-	na	-	-	-	-	-	-	-	-	-	-	-	-	3.0E+02	3.0E+02			
Zinc	0	-	-	na	-	-	-	na	-	-	na	-	-	-	na	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9E+04	6.9E+04

Notes:

- All concentrations expressed as micrograms/litter (ug/l), unless noted otherwise
 - Discharge flow is highest monthly average or Form 2C maximum for industries and design flow for Municipal
 - Metals measured as Dissolved, unless specified otherwise
 - "C" indicates a carcinogenic parameter
 - Regular WLAs are mass balances (minus background concentration) using the % of stream flow entered above under Mixing Information. Antidegradation WLAs are based upon a complete mix.
 - Antidegradation Baseline = (0.25(WQC - background conc.) + background conc.) for acute and chronic
= (0.1(WQC - background conc.) + background conc.) for human health
 - WLAs established at the following 9 stream flows: 1Q10 for Acute, 3Q10 for Chronic Ammonia, 7Q10 for Other Chronic, 30Q5 for Non-carcinogens, Harmonic Mean for Carcinogens, and Annual Average for Dioxin. Mixing ratios may be substituted for stream flows where appropriate.
- | Metal | Target Value (SSTV) |
|--------------|---------------------|
| Antimony | 4.3E+03 |
| Arsenic | 9.0E+01 |
| Banum | na |
| Cadmium | 1.6E+00 |
| Chromium III | 1.1E+02 |
| Chromium VI | 6.4E+00 |
| Copper | 1.4E+01 |
| Iron | na |
| Lead | 3.3E+01 |
| Manganese | na |
| Mercury | 5.1E-02 |
| Nickel | 3.1E+01 |
| Selenium | 3.0E+00 |
| Silver | 9.2E+00 |
| Zinc | 1.2E+02 |

Note: do not use QL's lower than the minimum QL's provided in agency guidance